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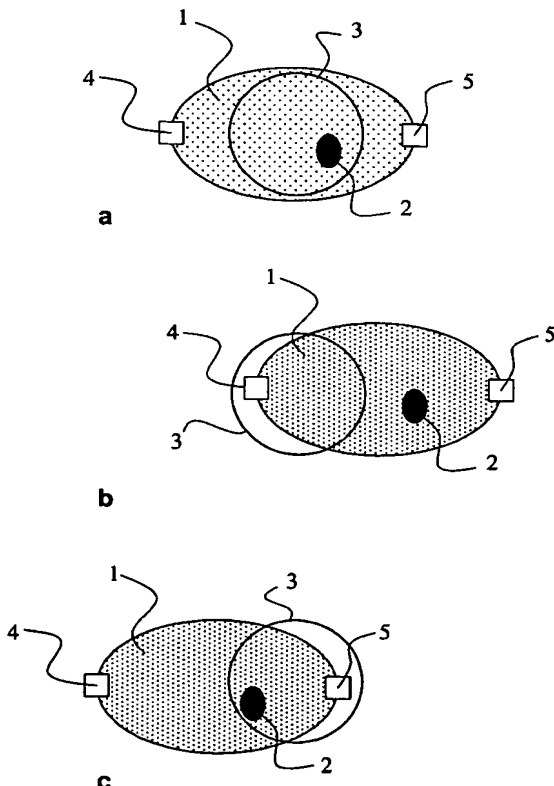
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(54) Title: USING MAGNETIC RESONANCE IMAGES FOR LOCATING ANATOMICAL TARGETS



(57) Abstract: A novel MR method and system is described for  
using MR images for planning radiotherapy treatment. The images  
are obtained by a scanner which generates a magnetic field with a  
magnetic center (isocenter). First at least one fiducial marker (4;5)  
is applied to the body (1) of the patient at a predetermined distance  
from the isocenter. The patient is repositioned within said scanner  
such that an anatomical target (2) is located in close vicinity of said  
isocenter. A first image of said target (2) is obtaining and then the  
patient (1) is shifted such that the fiducial marker (4;5) is close to  
the isocenter. A second image is obtained at the shifted position,  
in which the fiducial marker has an accurate geometrical position,  
that is merged into said first image.



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